GRAND HD CINEMA

USB to HDMI Converter

User's Manual

ISSUE: 2008/06/26

FCC

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)

The following equipment:

Product Name : HDCinema

Trade Name : GRANDTEC

Model Number : P509

It's herewith confirmed to comply with the requirements of FCC Part 15 Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

The result of electromagnetic emission has been evaluated by QuieTek EMC laboratory (NVLAP Lab. Code : 200533-0) and showed in the test report. (Report No. : 087226R-ITUSP01V02)

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

The following importer / manufacturer is responsible for this declaration:

CE

Declaration of Conformity

The following product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). The listed standards as below were applied:

The following Equipment:

Product : HD Cinema

Model Number : P509

Trade Name : GRANDTEC

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). For the evaluation regarding EMC, the following standards were applied:

RFI Emission:

EN 55022:1998+A1:2000+A2:2003 Class B	:	Product family standard
EN 61000-3-2:2000+A2:2005 Class A	:	Limits for harmonic current emission
EN 61000-3-3:1995+A1:2001	:	Limitation of voltage fluctuation and flicker in low-voltage supply system

Immunity:

EN 55024:1998+A1:2001+A2:2003	:	Product family standard

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1. Package Contents

This package contains the following items：

HD Cimema

USB Cable

Driver CD

- Grand HD Cinema
- USB Cable
- Driver CD (Driver & User Manual)

2. Introduction

Grand is pleased to introduce the world's first USB to HDMI converter. The Grand HD Cinema brings much convenience by allowing customers to play media files stored in PC on big screen by converting USB input into HDMI. Simply connect the USB interface of PC to the converter using the included USB cable, and connect the unit to your home theatre system with a HDMI cable, then you can enjoy the high quality pictures (resolution up to 720p) and sound on your big screen.

The Grand HD Cinema is an easy way to enjoy cinema-quality movies at your home.

3. System Requirements

- Operating System: Microsoft Windows XP/ Vista (32bit).
- Processor: Pentium 4 2.4GHz or above
- 512MB RAM or above
- Available USB 2.0 port
- 30Mb of available disk space

NOTE: When connecting more HD Cinema to a computer, a system with higher CPU performance is recommend.

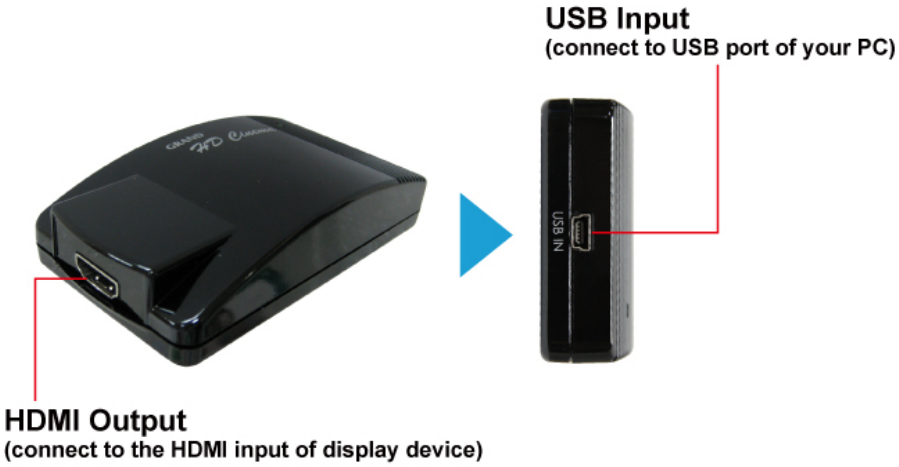
4. Product Features

- Plug & play. Installs in seconds.
- Easily connects up to 6 HDMI display devices to one PC through USB 2.0.
- Supports both video and audio signals (if you use multiple Grand HD Cinema, you can only select one of the display devices for sound output).
- Supports HDMI resolution up to 720p
- Compatible with **Windows XP and Vista (32bit).**
- **Completely new architecture to support Vista Aero (32bit).**
- No external power supply needed (power is supplied from the PC through USB connection).
- Dimensions: 100(L) x 55(W) x 33(H) mm.
- Bundled Software:

  HD Cinema Program
  - Supports Extended and Mirror Functions
  - Supports screen resolution and color quality adjustment in extended mode.
  - Allows you to rotate the screen on the add-on monitor by 90, 180 or 270 degrees
  - Supports online update automatically.
  - The software has been awarded Microsoft Windows Certification.

  USB PnP Sound Program
  - **Sound Effects** like 10-band Equalizer and 27 environment effects can enrich users audio experience and enjoyment.

5. Hardware Overview

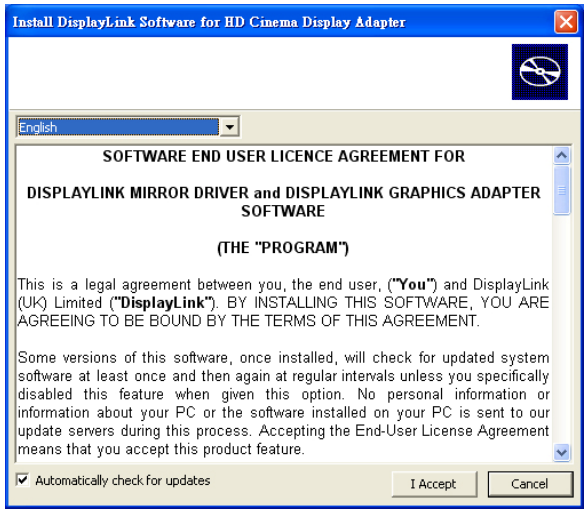


6. Installation

6.1 Install the HD Cinema Driver

Step 1: Insert the provided driver CD into your CD-ROM driver. Execute the **Setup.exe** file from the **HD Cinema Driver** folder.

Step 2: A dialog box should pop up to prompt you to choose desired installing language. After choosing your language, click on **I Accept** to start installation automatically.


Install DisplayLink Software for HD Cinema Display Adapter
English
SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE
(THE "PROGRAM")
This is a legal agreement between you, the end user, ("You") and DisplayLink (UK) Limited ("DisplayLink"). BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.
Some versions of this software, once installed, will check for updated system software at least once and then again at regular intervals unless you specifically disabled this feature when given this option. No personal information or information about your PC or the software installed on your PC is sent to our update servers during this process. Accepting the End-User License Agreement means that you accept this product feature.
Automatically check for updates
I Accept
Cancel

Step 3: After finishing the installation, a dialog box should pop up to inform you to restart your PC for the installation to completed and usable.

6.2 Install the USB Audio Driver

Step 1: Insert the provided driver CD into your CD-ROM driver. Execute the **Setup.exe** file from the **Audio Driver** folder.

Step 2: Follow the instructions of the wizard to complete the installation process.

Step 3: After finishing the installation, a dialog box should pop up to inform you to restart your PC for the installation to completed and usable.

6.3 Hardware Installation

After finishing the software installation, please follow the steps below to complete the hardware installation.

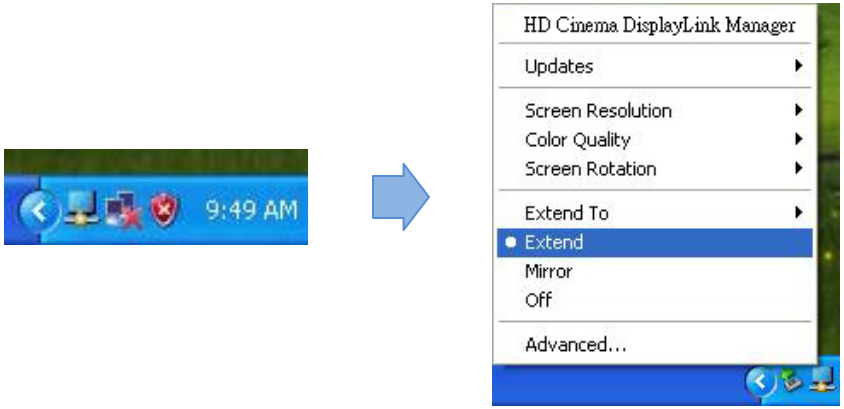
Step 1: Use the HDMI cable to connect your display device that supports HDMI input.

Step 2: Connect the HD Cinema to an USB 2.0 port of your computer by using the provided USB cable.

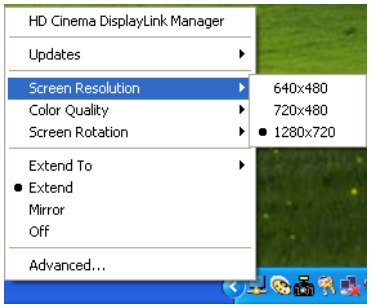
7. Using the HD Cinema

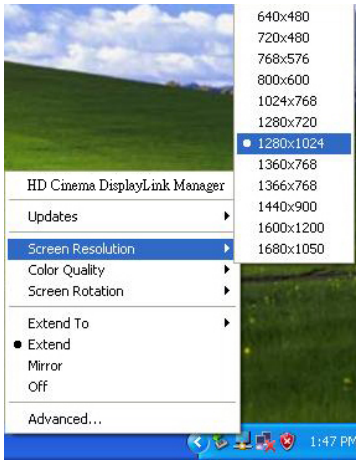
7.1 Using the HD Cinema DisplayLink Manager

After the driver is installed, a utility (HD Cinema DisplayLink Manager) will automatically appear in the system tray. The utility allows you to quickly change the settings and resolution for HD Cinema. Right-clicking the icon will bring out the context menu.



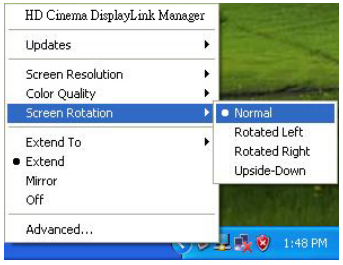
- **Screen Resolution:** Select the screen resolution (available only in extended mode). If you connect the HD Cinema to the display device first, and then connect to your computer, it will list only the available resolutions (640x480/ 720x480/ 1280x720) that you can select. It will list all the resolutions, if you connect the HD cinema to your computer first.



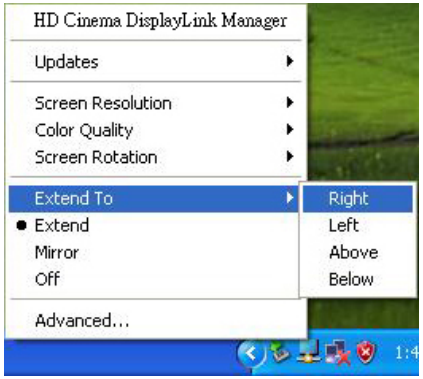


- **Color Quality:** Select the screen color quality (available only in extended mode).

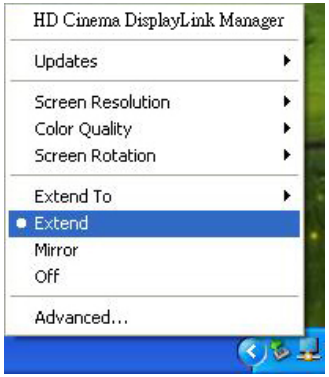
- **Screen Rotation:** Rotate the screen on the additional monitor by 90, 180 or 270 degrees.



- **Extend to:** Reposition the extended screen to the top, bottom, left or right of the primary display.

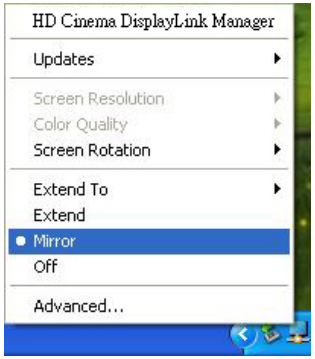


- **Extend:** Set the HD Cinema to Extended mode. You can surf website on the VGA monitor and play videos on the HDMI display device.

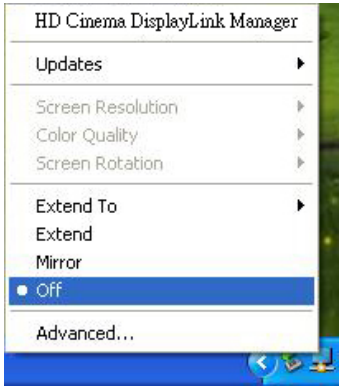


- **Mirror:** Set the HD Cinema to Mirror mode. You can see the same desktop image on the additional monitor.

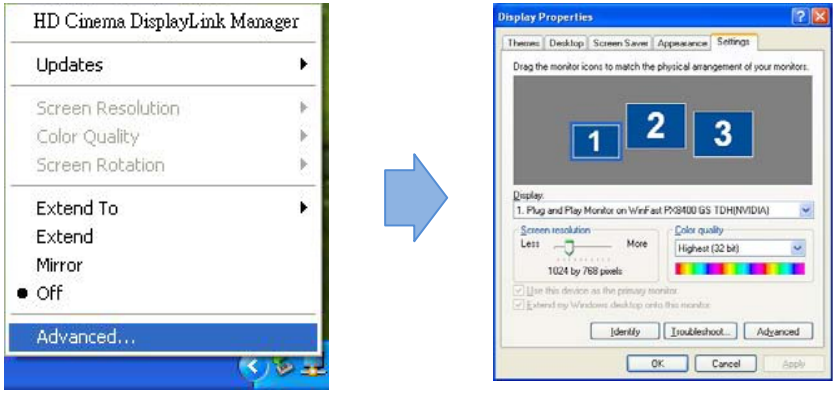
NOTE: If there is no picture on additional monitor, please adjust the other resolution of the main screen.



- **Off:** Disable the HD Cinema on the system.

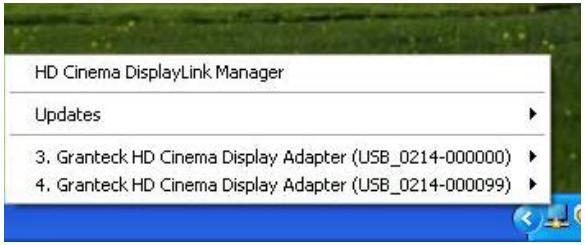


- **Advanced:** Directly access the **Display Properties**. You can also adjust the resolution, color quality, position and refresh rate via the **Display Properties**.



7.2 Using More HD Cinema

It doesn't need to install driver again as long as you has completed above process of driver installation in advance. It will automatically define the ID of new adding HD Cinema. All the HD Cinema will list in the **Display Properties** or the display manager menu.


HD Cinema DisplayLink Manager
Updates
3. Granteck HD Cinema Display Adapter (USB_0214-000000)
4. Granteck HD Cinema Display Adapter (USB_0214-000099)

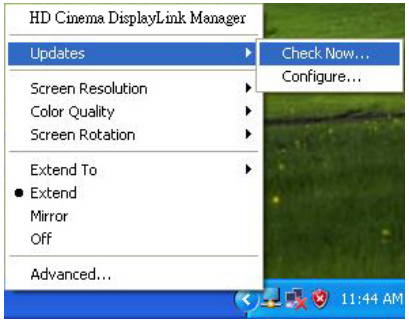
NOTE: When connecting more HD Cinema to a computer, a system with higher CPU performance is recommend.

7.3 Firmware Update

■ **Manually Update**

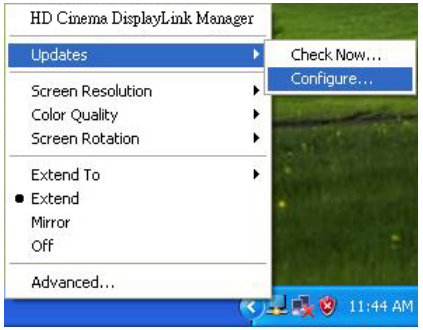
Click the **Updates** → **Check Now…**, and it will check and download the latest firmware immediately..

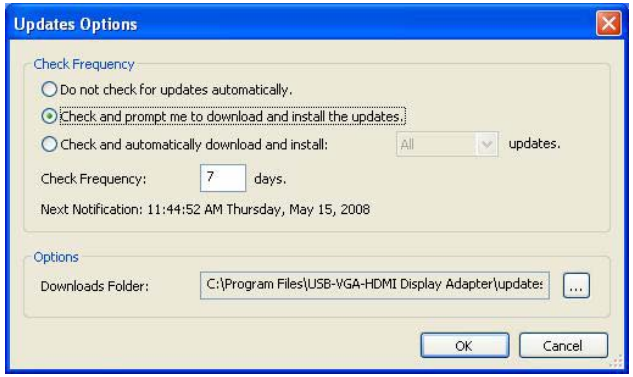
NOTE: Confirm that your computer is already connected to the network.



■ **Automatic Update**

Click the **Updates** → **Configure…** , the **Updates Options** window will appear as shown below. You can set the update method and frequency in the windows.

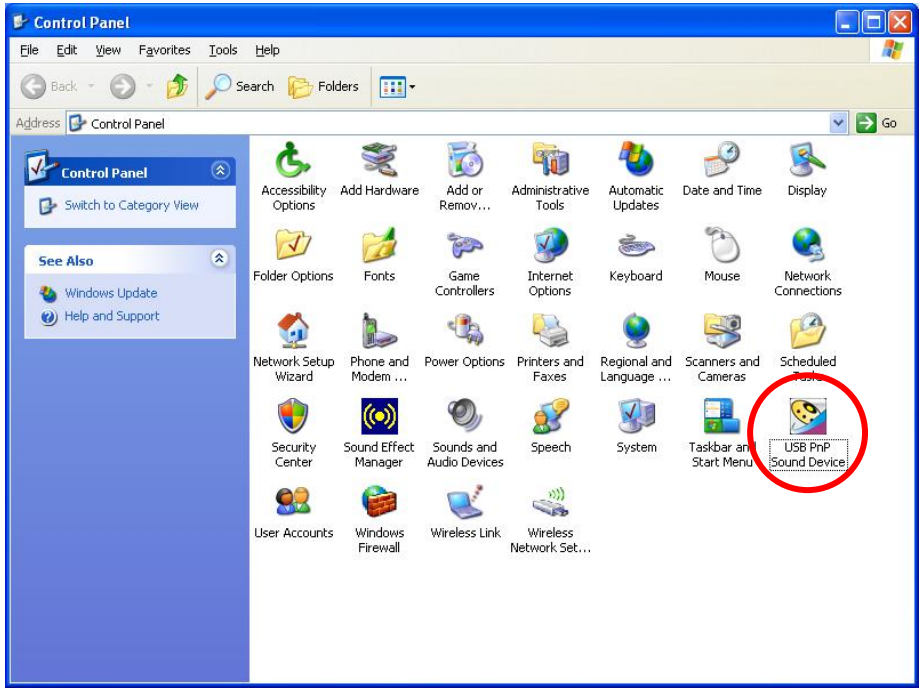


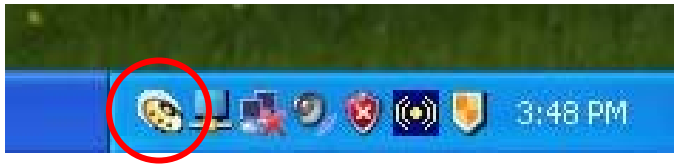


8. USB PnP Sound Program

The USB PnP sound program is C-Media's 3D audio control panel that you can control all audio configurations.

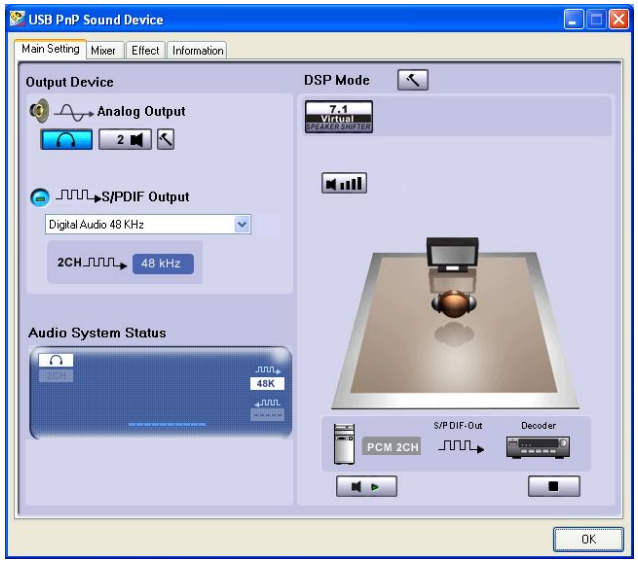
After finishing the installation of the Audio Driver and rebooting the system, you can open "**Control Panel**" to find "**USB PnP Sound Device**" and enable it. Or you can the icon in the system tray in the right-bottom of your screen.





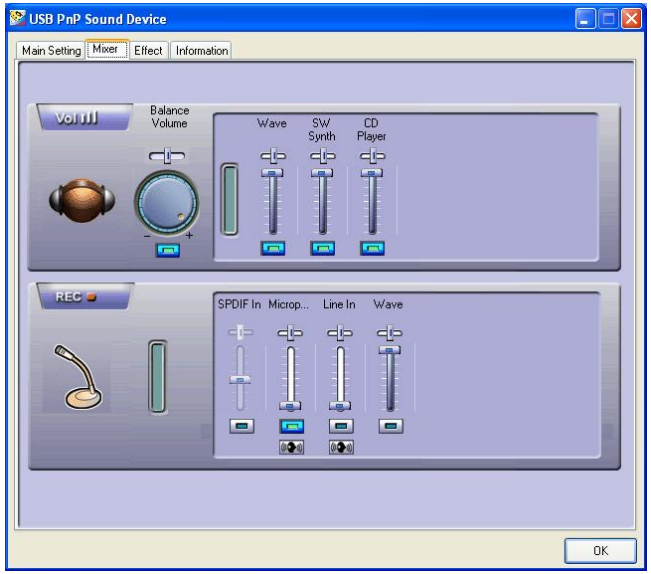
8.1 Main Setting

Select output device (earphone or speakers).



8.2 Mixer

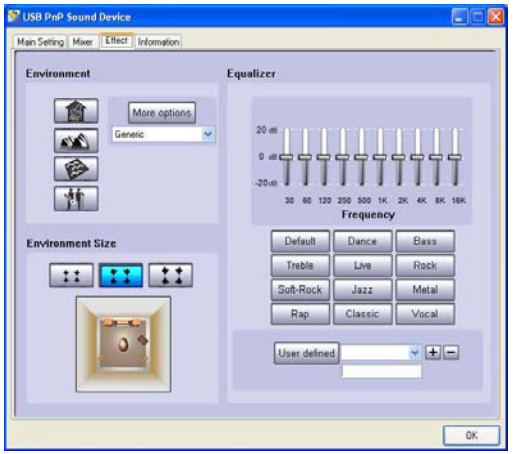
Adjusting the volume of each source.



8.3 Effect

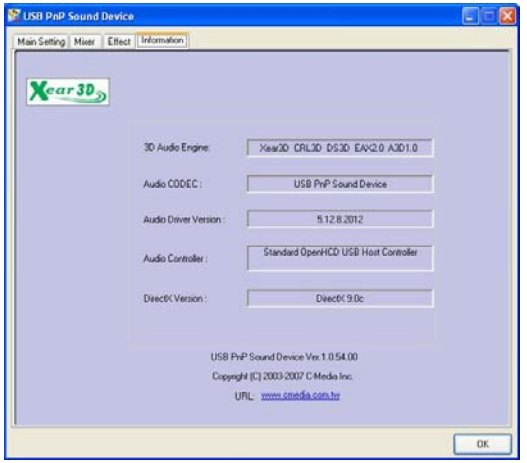
There are many environment effect presets and 10-band EQ for you to choose.

- Select an “Environment” button for emulation that is implemented by producing the sound reflection and reverberation.
- You can change the “Environment Size” to large or small, and you will hear the different felling about the environment space.
- You can select a pre-set mode (such as Bass, Treble, Live, etc….) for equalizer that is actually frequency response. You can also change the gain setting for each band and then give it a name in the following blank.



8.4 Information

This page will display information of audio driver and system.



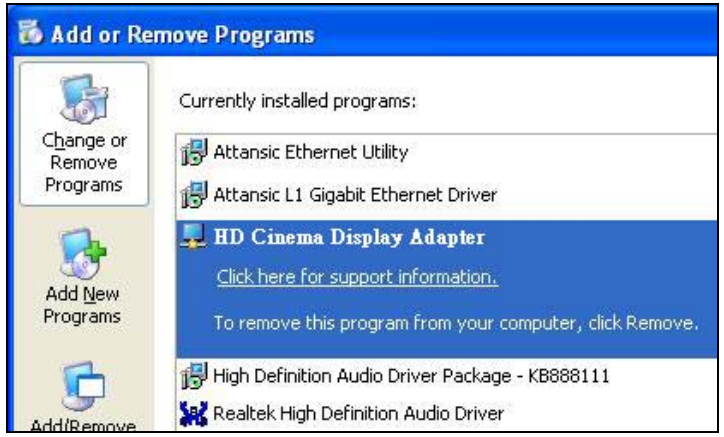
9. Uninstall

9.1 Uninstall the HD Cinema Driver

Follow the steps below to uninstall the driver of the HD Cinema.

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Add or Remove Programs.**

Step 2: Select the **HD Cinema Display Adapter** and click **Remove**, then follow the instructions of the uninstall wizard.


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove
Currently installed programs:
Attansic Ethernet Utility
Attansic L1 Gigabit Ethernet Driver
HD Cinema Display Adapter
Click here for support information.
To remove this program from your computer, click Remove.
High Definition Audio Driver Package - KB888111
Realtek High Definition Audio Driver

9.2 Uninstall the USB Audio Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Add or Remove Programs.**

Step 2: Select the **USB PnP Sound Device** and click **Change/Remove**, then follow the instructions of the uninstall wizard.

Add or Remove Programs
Change or Remove Programs
Add New Programs
Currently installed programs:
Show updates
Conexant HDA D110 MDC V.92 Modem
Dell ResourceCD
USB PnP Sound Device
To change this program or remove it from your computer, click Change/Remove.
High Definition Audio Driver Package - KB835221

NOTE: Please restart your PC after uninstallation.

10. Troubleshooting

Situation	Check Point
The device driver has been installed, but the HD Cinema is not working	1. Make sure you restart your computer after the driver installation. 2. Check all the connectors are plugged in correctly. 3. Make sure the USB port that you are using is USB 2.0. 4. Check the additional monitor is connected correctly and the power is on. 5. Make sure the operating system, the HD Cinema is compatible with Windows XP and Vista (32bit). 6. Try a different USB 2.0 or computer.
DVD player not working when move it over to the extended display	1. Try to open the program in the additional display first before playing the DVD.
The mouse not move pass the right side of the screen as it should on extended desktop	1. Check the display settings and make sure that your display number 2 is on the right side of display number 1.